Transportation
Energy
Management
Program

TEMP-87-01

TEMP Year-End Report
Part 1: Conservation and Marketing
Fiscal Year 1986/87

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Manager
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The Transportation Energy Management Program (TEMP) is a joint program of the Ministry of Transportation and Communications (MTC) and the Ministry of Energy (MENY) in which MTC is responsible for the program delivery of the utilization aspects of transportation energy.

The report was prepared by MTC's Transportation Energy Office to record TEMP's accomplishments during the past fiscal year.

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EXECUTIVE SUMMARY

The Transportation Energy Management Program (TEMP) is a joint program of the Ministry of Transportation and Communications (MTC) and the Ministry of Energy (MENY) aimed at reducing Ontario's oil consumption in the transportation sector. It has operated over the past fiscal year in two sections:

1/ Conservation and Marketing, administered by the Transportation Energy Office;
2/ Alternative Transportation Fuels (ATF), administered by the Automotive Technology and Systems Office.

Carried out in five subprograms, the Conservation and Marketing section continued to promote energy conservation and use of available alternative fuels in both the private and public sectors.

1/ Trucksave

Trucksave has been publishing information and making audiovisual presentations since 1980, and since 1982 has run an annual Fuel Economy Challenge.

While Trucksave has been extremely successful in reaching drivers, supervisors and middle management, the Trucksave message was not reaching the Chief Executive Officers (CEOs) of the large Ontario fleets. Therefore, a special business-oriented forum for CEOs will be held in June 1987.

This year's Fuel Economy Challenge was successfully carried out with a 17% increase in runs. Awards were presented at a banquet co-sponsored by government and industry.

There was a continued demand for Trucksave publications, both from mailed requests and at trade shows with a Trucksave booth.

Liaison with the federal program, PRO-Trucker, continued to be a positive activity; program presentations were made to off-shore visitors and Trucksave continued to receive "good press" in numerous Truck magazines.

2/ DriveSave

Designed to improve the fuel efficiency of Ontario's automobiles and light trucks, membership of the DriveSave Fleet Advisory Committee was increased by including representatives from the Driving School Association of Ontario (DSAO) and the National Association of Fleet Administrators (NAFA).

Eleven fuel economy seminars were conducted. They were attended by a total of 254 fleet managers and driver trainers, representing 197 fleets with a total of 54 000 vehicles.

Visits to high school driving classes to present information on fuel efficiency were most successful.

This year, the DriveSave display was exhibited in nine locations throughout the province and proved to be popular with the motoring public.

Fuel Economy Calculators and "All Season Fuel Economy" pamphlets continued to be in great demand.

An assessment study of the general licensed driver program was conducted and a report produced.

3/ The Municipal Program

In co-operation with Ontario municipalities, the municipal program implements energy management projects based on an analysis of transportation energy usage and the conservation and energy management needs identified.

The Municipal Fleet Management Information System (MFMIS) was completed and a program to implement the system in Ontario's municipal fleets is well underway.

Ongoing direct contact with municipalities continued through the Municipal Transportation Energy Advisory Committee (MTEAC) and information continued to be disseminated by means of a quarterly newsletter.

Estimated total energy savings stemming from the municipal program this year are in the neighbourhood of some 700 million litres of gasoline equating to dollar savings for the provincial economy of about $182 million.

4/ Government Programs

Government programs were directed toward increasing the use alternative fuels and improving the energy efficiency of government fleets.

Twenty-four government vehicles were converted to operate on natural gas this year, and the natural gas fuelling facility at MTC Downsview was upgraded to provide faster service with a one-third increase in capacity.

The computerized fleet management system was implemented in a number of ministries and program staff coached fleet managers in its use and in techniques of energy conservation.

5/ ATF Marketing

With the propane industry increasingly able to operate without major government marketing assistance, the ATF marketing subprogram was able to concentrate its effort in support of the rapidly expanding natural gas transportation fuel industry by participation in trade-shows and the provision of technical and promotional booklets. Market support to the propane industry was still maintained through the provision of similar technical and promotional booklets.

1/ INTRODUCTION

While conventional domestic oil supplies continued to dwindle and world oil supplies remained dependant on volatile political situations, last year's provincial oil bill in excess of seven billion dollars ensured that energy clearly remains a serious concern for Ontario. However, ample supplies of oil in North America for the past several years has created a climate where there appears to be little concern about Ontario's oil dependance and the enormous drain on the provincial economy due to the purchase of oil from outside the province.

The promotion of energy conservation, in a climate of minimum energy concern, was achieved by an emphasis on the financial payoffs of increased fuel efficiency for private sector fleets and the implementation of TEMP's own computerized fleet management system in government and municipal fleets.

This tactical change has had positive results and has provided the Transportation Energy Office with a renewed ability to carry out its mandate of reducing Ontario's oil consumption in the transportation sector.

2/ TRUCKSAVE

2.1/ Overview

Trucksave has been operating since 1980, publishing information, making audiovisual presentations, and since 1982, running the annual Fuel Economy Challenge.

The marketing of Trucksave products has reached a very large percentage of the trucking industry and these products have been well received by drivers, supervisors and middle management. However, it has been suggested by the Fleet Advisory Committee (FAC) that the message of saving fuel (one that would make a dramatic difference to the "bottom line") was not reaching the Chief Executive Officers (CEOs) of the large Ontario fleets.

Therefore, it was decided to hold a special business-oriented forum for the CEOs of some of Ontario's largest fleets, and personally invite them to attend the event. The forum's objective was to make the CEOs realize that conserving fuel (by travelling at 90 km/h on major highways) is profitable, and also to convince them to formulate a policy, regarding fuel savings, within their companies. Due to uncontrollable delays, this forum will not be held until June 4th, 1987, while much of the planning has been done during the past fiscal year.

The follow-up to this forum will be a series of seminars for fleet managers presented by the Trucksave staff.

The annual Fuel Economy Challenge was organized and conducted with a 17% increase in runs. The awards were again presented at a banquet that was co-sponsored by government and industry.

There was a fairly heavy demand for Trucksave publications particularly at the trade shows which had the Trucksave booth on display. A new booklet that had been completed in 84/85, "Choosing a Computerized Dispatching and Routing System" was also published during the past fiscal year.

All fleet owners (with 10 or more trucks), and owner/operators with one tractor, in the counties north of North Bay, received a copy of the Trucksave Information booklet.

Liaison with the federal program PRO-Trucker was continued, and presentations about the Trucksave program were made to off-shore visitors.

About once a month, there has been some mention of the Trucksave program in one of the numerous Truck magazines.

2.2/ Project Reports

2.2.1/ Trucksave Fleet Advisory Committee (33100)

Project Objectives
To provide advice on the general feasibility and best means of implementing proposals for energy conservation in the trucking industry.

To act as a forum within the industry for the exchange of information on energy conservation.

Activities
- hold monthly committee meetings
- critique ongoing Trucksave activities and review new material, Requests for Proposal (RFPs) and the budget
- generate new proposals to enhance the current program
- disseminate Trucksave publications, etc., at trade shows, seminars and truckstops

Results and Achievements
During the year 10 committee meetings were held. Changes to the committee membership included the addition of four new members, and five resignations; plus a representative of the Truck Transportation Office became a full member of the committee.

Presentations were made to a large group of representatives from South East Asia, and to a smaller group from Denmark. Discussions were held, in Winnipeg and St. John's, between representatives from Trucksave and the federally-run program, PRO-Trucker.

Also a master list of truck owners was used to distribute informational booklets to a number of trucking fleets and owner/operators. The Trucksave booth and publications were displayed at eight trade shows. Regular visits were made to 32 truckstops to ensure that the display racks were stocked and in good repair.

Starting Date: August 1979 **Completion Date:** Ongoing

2.2.2/ Revisions and Reprints (33115)

Project Objective
To maintain sufficient quantity of current publications in stock in order to meet demand; also to ensure that necessary revisions are made to keep publications current, when reprints are required.

Activities
- revision and reprinting of publications

Results and Achievements
The following materials were reprinted with no revisions: "Fuel Saving Techniques for Straight Trucks" (5 booklets), Trucksave calculators, 90 km/h decal, and "The Trucksave Edge" brochure.

Revisions were made to the following materials which were reprinted: #2 Spec'ing Booklet, #4 Spec'ing Booklet, plastic bags (for carrying publications at trade shows), and the 90 km/h envelope stuffers ("A" class drivers).

Additional copies of the two video-taped films "Easy Goin" and "The Trucksave Edge" were made for rental.

Starting Date: April 1986 **Completion Date:** March 1987

2.2.3/ Marketing Trucksave (33116)

Project Objective
To market current and future Trucksave material to all areas of the trucking industry to ensure that the majority of fleet owners/managers and drivers are aware of why and how to save fuel.

Activities
- develop and organize a forum for the CEOs of the 50 largest Ontario fleets (for-hire and private) in Ontario; to obtain a commitment from the CEOs by making them realize the many advantages gained from fuel savings and then have them pass the message down the line

- prepare material for fleet managers' seminars

- arrange with a trucking company to have the Trucksave logo carried on one of their trucks

Results and Achievements
Terms of reference were developed for the forum and Fleet Managers' Seminars and contracts were awarded for both projects.

A sub-committee was formed from FAC to oversee projects. A concept and plan for the forum was developed and the date, June 4, 1987 was decided upon. Also Trucksave's logos were placed on a GTL trailer, which is used daily throughout Ontario and has been on display at several trade shows.

Starting Date: June 1986 **Completion Date** July 1987

2.2.4/ A Film -- Straight Trucks (33117)

Project Objective
To produce a film for straight truck operators, showing various methods of fuel conservation with emphasis on the benefits of following these techniques.

Activities
- developing an approach to and message for the film
- preparing the script
- filming and editing

Results and Achievements
Conducted interviews with several trucking firms regarding the messages to be conveyed by the film and the approach to be taken in presenting these messages.

Two versions of the film script were produced, but due to the work load of the MTC producer, the actual shooting was deferred to the next fiscal year.

Starting Date: June 1987 **Completion Date:** March 1988

2.2.5/ Tires, Wheels, and Braking (33118)

Project Objectives
To revise and print Spec'ing Booklet #4, "Tires and Wheels," and add a chapter or produce a pamphlet on braking.

Activities
- collecting up-to-date information on truck wheels, tires, brakes, and braking characteristics
- reviewing Spec'ing Booklet #4 and incorporating changes and updates as indicated by the information
- reprinting the revised Spec'ing Booklet #4

Results and Achievements
Investigation showed that it would be premature to produce information on how the new aerodynamic trucks are causing problems with braking. The whole industry is aware of the difficulties but have not yet resolved the problem.

It was suggested that by keeping to 90 km/h on the highways the braking problem would be resolved.

The issue on brakes was cancelled, and so the revision and reprinting of Spec'ing Booklet #4 was transferred to project 33115.

Starting Date: April 1986 **Completion Date:** June 1986

2.2.6/ Trucksave Display (33119)

Project Objective
To enhance the marketing image of Trucksave with an effective display at Truckcan, the largest truck trade show in Canada.

Activities
- select booth designer and builder
- decide on what to exhibit
- man booth October 25, 26, and 27, 1986
- stock booth with Trucksave publications

Results and Achievements
A display was designed, built and set up at the Truckcan show. The display included the ICG experimental propane powered tractor (Western Star) with a Cummins engine. Special Trucksave key rings were given to visitors at the booth which was located in the most active area of the show.

A short version of the "Trucksave Edge" film and a film on "Stability of Commercial Vehicles" produced by the TT&E Branch was shown at the booth.

There was an 11.6% increase in attendance compared to 1984.

Starting Date: June 1986 **Completion Date:** October 1986

2.2.7/ Fuel Economy Challenge -- 1986 (33299)

Project Objective

To organize and promote an annual competition that allows professional drivers to put their driving abilities and equipment to the fuel economy test. The competition promotes energy conservation in the trucking industry and provides recognition for the top driver, their companies and suppliers.

Activities

- planning and delivery of the fuel economy competition and awards banquet with the assistance from members of the trucking industry (Economy Challenge Committee)
- organizing a publicity campaign, selecting routes, developing rules, and preparing a computer program to record data and calculate final results
- co-ordinating the event with the assistance of regional staff
- soliciting funds from the truck industry for prize money and the cost of the banquets
- publishing the results booklet for distribution at the awards banquet

Results and Achievements

A new Northern route -- New Liskeard to Cochrane instead of Brantford to South River -- was established for the Challenge. The Western and Eastern routes, from Chatham to Milton and from Bowmanville to Joyceville, remained as in previous years.

There were 325 runs made this year, which is an increase of 17% from 1985.

Fifty-seven companies entered the Challenge, and at the Awards Banquet, the representative from the Ministry of Energy announced that there would be a 1987 Fuel Economy Challenge.

Starting Date: April 1986 **Completion Date:** December 1986

3/ DRIVESAVE

3.1/ Overview

The DriveSave program is designed to improve the fuel efficiency of Ontario automobile and light truck drivers in three target groups:

- commercial and institutional vehicle fleets
- beginner drivers
- general licensed drivers

In FY 1986/87 DriveSave continued to conduct a wide range of marketing and information distribution activities aimed at all three target groups.

In the area of light vehicle fleet, the DriveSave Fleet Advisory Committee (FAC) continued its bi-monthly meetings. Two new members, representing the Driving School Association of Ontario (DSAO) and the National Association of Fleet Administrators (NAFA) were added to the Committee.

DriveSave again participated in the NAFA annual Fleet Fair, operating a booth for information distribution.

Activities were initiated to develop a one day safety/fuel economy driving event for fleet managers, to be sponsored by NAFA, DSAO, the Motor Vehicle Manufacturers Association (MVMA), and DriveSave.

Eleven fuel economy seminars for fleet managers were conducted. These were attended by 254 fleet managers and driver trainers, representing 197 fleets with a total of 54 000 vehicles.

Activities to help ensure that Ontario's new drivers learn to drive fuel-efficiently included continuation of regular contact with private driving schools and high school driver educators. Eleven fuel efficiency seminars for driving instructors were held. These were attended by 182 instructors. Several visits were made to high school driving classes where fuel efficiency presentations were made to the students.

The DriveSave display was exhibited in nine locations throughout Ontario. It also formed part of the larger DriveSave displays at the Canadian National Exhibition, the London Western Fair and the Toronto International Auto Show. One module of the display was converted into an interactive game board called "The Litre Beater," which was popular with the teenage audience.

Over 35 000 fuel economy calculators and 10 000 "Fuel Economy For All Season" pamphlets were distributed throughout the year at the display.

A total of 486 000 calculators (300 000 at the request of Imperial Oil), 60 000 film pamphlets and 100 000 "All Season" pamphlets were distributed.

The assessment study of the general licensed driver program was concluded and a final report on the findings was received.

3.2/ Project Reports

3.2.1/ DriveSave Display (33301)

Project Objectives
To expose the general public to a wide range of DriveSave fuel economy information, by providing access to these materials in shopping malls and other public places.

Activities
- moving and setting up a display, promoting fuel economy and DriveSave, at shopping malls in Metro Toronto and other Ontario centres
- distributing material at the display site
- using the display as the basis for a DriveSave/TEMP booth at the CNE Toronto International Auto Show and Western Fair (London)

Results and Achievements
The DriveSave display was exhibited in shopping malls in Metro Toronto, Newmarket, Oakville, Hamilton, London, Mississauga and Pickering. In FY 1986/87 the display was exhibited in nine locations.

The display was also part of the large and very successful exhibits at the Canadian National Exhibition, the Western Fair, and the Toronto International Auto Show.

Materials distributed included fuel economy calculators (over 7000 at shopping malls and 28 000 at the two fairs), and DriveSave's "Fuel Economy For All Seasons" pamphlets (3000 at shopping malls and 6000 at the fairs).

One module of the display was converted to contain an interactive game board called "The Litre Beater." It was a very popular addition to the display, reaching the teenage audience and teaching fuel economy in a new way.

3.2.2/ General Licensed Driver Program and Market Assessment (33349)

Project Objective
To assess the current general licensed drivers' program as to the suitability of the informational materials, the mechanics of distribution and the resultant savings achieved by drivers who utilize the information.

To develop a new marketing strategy incorporating specifically designed and tested communication tools and clearly identified subgroups within the target market.

Activities
- development of a new marketing strategy outlining activities, budgets and market penetrations
- production of a final report

Results and Achievements
After the strategy development was completed in FY 1985/86, the final report was written, reviewed and submitted in September 1986.

Starting Date: January 1986 **Completion Date:** September 1986

3.2.3/ Driver Education (33395)

Project Objectives
To provide licensed driving instructors with information on fuel efficiency and to promote the use of driving and maintenance techniques to beginner drivers in order for them to achieve higher fuel efficiency.

Activities
- increase the penetration of the program in both the high schools and private driving school classes
- conducting fuel economy seminars for driver educators at their own facilities in various locations across the province
- monitoring the levels of use and need for additional DriveSave material with all driving schools in Ontario

Results and Achievements
A total of 65 licensed driving instructors from private driving schools and high school driving programs attended eight DriveSave seminars conducted in various locations throughout Ontario. These instructors teach over 31 000 students a year.

A total of 117 licensed driving instructors attended special DriveSave seminars held at their own facilities.

The DriveSave material distributed to beginner drivers included 11 300 fuel economy calculators, 9800 film pamphlets and 8600 "All Seasons" pamphlets.

Starting Date: April 1981 **Completion Date:** March 1987

3.2.4/ Fleet Industry Program (33400)

Project Objectives
To provide a forum to enable direct involvement of the fleet industry in the development of DriveSave activities which aim at improving the fuel economy and promote the use of alternative fuels by fleets in Ontario.

Activities
- continue light-vehicle fleet programs with strong support from and involvement with (NAFA)

- conduct bi-monthly DriveSave FAC meetings throughout the fiscal year to exchange information requirements and experience relating to fuel economy and alternative fuels

- develop through NAFA and DSAO a one-day driving event to evaluate fleet managers' (within NAFA) driving skills -- based on fuel economy and safety

Results and Achievements
Four FAC meetings were held during the fiscal year.

Representatives from the DSAO and NAFA were added as new members.

New methods and strategies were developed for communicating fuel economy information to light vehicle fleets. New fleets were contacted and made aware of DriveSave information and material, and as a result the fleets established new fuel economy programs.

DriveSave again participated with a manned booth at the annual NAFA Affiliates Night Fleet Fair, attended by 550 fleet people.

Activity was initiated to develop a one day safety/fuel economy driving event for fleet managers and fleet executives to be sponsored by NAFA, DSAO, DriveSave and MVMA.

Start Date: December 1980 **Completion Date:** March 31 1987

3.2.5/ FuelSaver Newsletter (33406)

Project Objective
To publish a newsletter as a low cost marketing tool to inform fleet managers and driver trainers about activities and new developments in the DriveSave, Trucksave and Alternative Transportation Fuels (ATF) marketing programs.

Activities
- researching and writing of articles, reviewing and checking typesetting, layout and final printing for the newsletter
- continual monitoring and updating of newsletter mailing list to ensure accuracy and completeness

Results and Achievements
Three issues of the "FuelSaver" were published: summer, fall and winter. Over 12 000 copies of each issue were distributed. Outlines of the articles and layout for the next summer issue were completed.

The mailing list, which contains more than 12 000 fleet managers, driver instructors and related interests, was continually updated throughout the year.

The newsletter continued to reinforce the fuel economy measures promoted by DriveSave, Trucksave and ATF Marketing. It also provided new information and developments on fuel economy and alternative fuels.

Starting Date: April 1983 **Completion Date:** March 1987

3.2.6/ Fleet Managers' Seminar (33441)

Project Objectives
To train 150 fleet managers and company driver trainers and 15 000 fleet drivers with the DriveSave fleet program.

Activities

- conducting a continuing series of half-day seminars on fuel economy for fleet operators with automobiles and light trucks, and covering alternative transportation fuel usage

- providing extensive marketing of seminars at each location and surrounding area to ensure maximum attendance

- conducting regular follow-up and information support for fleet managers and driver trainers who attended the seminars

Results and Achievements

In FY 1986/87, 11 seminars for fleet managers were conducted. These were attended by 254 fleet managers and driver trainers, representing 197 vehicle fleets with a total of 54 000 vehicles. This year's training program has increased the total number of trained fleet managers to 1077.

Based on the average fleet vehicle performances as reported by the fleet managers, it is estimated that annual fuel savings achieved by these 197 fleets total about 8.4 million litres (1.96 million gallons). The fuel cost-savings, using an average price of 45¢/L would be about $3.78 million for one year.

Starting Date: December 1980 **Completion Date:** March 1987

3.2.7/ Fleet Program and Market Assessment and Strategy (33499)

Project Objective

To assess the effectiveness of the current fleet program, provide an assessment of the light vehicle fleet industry potential for fuel savings, and develop a marketing strategy incorporating specifically designed communication tools.

Activities

- development of assessment methodology
- carrying out the assessment
- development of marketing strategy

Results and Achievements

This project was not initiated.

Starting Date: N/A **Completion Date:** N/A

4/ THE MUNICIPAL PROGRAM

4.1/ Overview

TEMP's Municipal Program is conducted by the provincial government in co-operation with the Ontario municipalities. It entails the analysis of transportation energy usage, identification of conservation and energy management needs, development of appropriate measures to meet these needs, and the implementation of energy management programs based on the developed measures.

The implementation of energy management programs and measures is achieved through the supply of information to the municipalities, initiation of selected demonstrations, provision of advice and assistance to the municipalities, and through promotion.

During the past year, two major projects were completed -- Municipal Fleet Management Information System (MFMIS) demonstration and review of energy conservation opportunities in small and rural municipalities. A number of minor projects were started and finished -- rural study document, Municipal Program display and artwork, and a document describing all Municipal Program publications.

Ongoing direct contact with the municipalities is maintained through a Municipal Transportation Energy Advisory Committee (MTEAC). Information is disseminated to the municipalities by means of a quarterly newsletter, and through responses to direct requests from municipal officials.

Although exact figures showing the total energy savings stemming from the Municipal Program are difficult to produce, approximate numbers can be generated using various estimating techniques. For FY 1986/87, estimated total energy savings are in the neighbourhood of 700 million litres of gasoline, while the dollar savings equate to $280 million at 40¢/L. The dollar value retained in Ontario's economy is $182 million. The Municipal Program's budget represents approximately 0.05% of dollar energy savings achieved. Therefore, for every dollar invested in the Municipal Program, roughly $1330 are retained in the provincial economy.

During FY 1986/87, the Municipal Program received a total of 344 information inquiries, up 219% from last year. Sixty-three percent of all inquiries were made by Ontario municipalities, and 820 municipal drivers viewed the driver training film "Planning Smarter/Driving Smoother". A total of 6405 documents were distributed in addition to the 20 000 MTEAC newsletters.

4.2/ Project Reports

4.2.1/ Municipal Transportation Energy Advisory Committee (MTEAC) (33500)

Project Objective
To provide advice and guidance on how the province can best assist and encourage municipalities in developing and implementing energy conservation practices in the transportation sector.

Activities
- holding regular meetings with both the executive and full committees
- initiating the use of MTEAC members as representatives to speak on behalf of the committee and the program in general at conferences and seminars
- maintaining and updating the list of future projects
- continuing to advise Ontario municipalities on the initiation, development and implementation of energy programs
- continuing to assist TEMP staff in program guidance and project direction

Results and Achievements
The committee administered a questionnaire for future Municipal Program evaluation and provided advice on a variety of issues. Such issues as the implementation, promotion and update of MFMIS, and contingency planning were discussed. Other issues included the update and marketing of TEMP, the municipal outreach program, and participation in the updating of the Road Needs Study.

Starting Date: April 1986 **Completion Date:** Ongoing

4.2.2/ MTEAC Newsletter (33501)

Project Objective
To keep municipalities abreast of contemporary energy conservation developments in the transportation sector by distributing a quarterly newsletter to 5000 subscribers.

Activities
- researching various energy and transportation-related articles for possible inclusion in the newsletter
- writing and editing articles for the newsletter
- printing and distributing four issues to approximately 5000 readers per issue

Results and Achievements
Information was continuously provided to Ontario municipalities on energy and transportation through the newsletter. Over 22 000 newsletters were distributed which generated requests for more in-depth information, thereby maintaining a consistent two-way communications link with readers. Feature articles were written on natural gas powered bus, automated fuel-dispensing systems, and the municipal pavement management program. Other articles included road construction and maintenance, how small municipalities can save, the road surface recycling machine, and transportation fuel consumption in Ontario.

Starting Date: April 1986 **Completion Date:** Ongoing

4.2.3/ Municipal Fleet Management Information System (MFMIS) Promotion (33504)

Project Objective
To market and promote the MFMIS to municipal government agencies across the province.

Activities
- prepare seminars and presentation to municipal government representatives
- train municipal staff on how to use the MFMIS system
- promote system in magazines and journals

Results and Achievements
Completed nine seminars across the province to which 310 municipal staff attended.

Made 78 presentations to municipal staff and various conferences (326 attended).

Promoted the MFMIS in three major municipal magazines (Civic Public Works, Municipal World, Ontario Good Roads Association (OGRA) Roadrunners, total circulation 21 000).

A total of 18 municipalities are in the process of implementing the MFMIS.

Starting Date: April 1986 **Completion Date** Ongoing

4.2.4/ Municipal Program Evaluation (33507)

Project Objective
To assess the impact of past initiatives of TEMP's Municipal Program and to assist in directing future projects.

Activities
- design and develop a questionnaire covering the major areas of municipal activities
- mailing of surveys to all municipalities with population of 5000 or more and a sample of municipalities with less than 5000
- analysis of survey results

Results and Achievements
One hundred and eighty-seven surveys were mailed out and 68% of these received a response. The response rate breaks down as follows: towns 66%, townships 84%, counties 63%, cities 62%, and regional municipalities 90%.

Analysis of answers was deferred to FY 87/88.

Starting Date: April 1986 **Completion Date:** March 1988

4.2.5/ Municipal Outreach (33520)

Objective
To market municipal program documents, products and findings.

Activities
- make presentations and deliver papers at conferences and seminars
- set up municipal display and hand out promotional material at conferences and municipal energy week

Results and Achievements
The following conferences were attended: Ontario Good Roads Associations (OGRA), American Public Works Associations (APWA), Federation of Canadian Municipalities (FCM), Rural Ontario Municipal Association (ROMA), Association of Municipalities of Ontario (AMO), Canadian Urban Transit Association (CUTA), Municipal Information Systems Association (MISA), Association of Energy Management Analysts (AEMA), Stratford Energy Week.

The display was set up at AMO, ROMA, FCM, APWA, OGRA, AEMA and the Stratford Energy Festival.

Seven new art panels were developed for the display on the topics of: unnecessary stop signs, road maintenance, pavement management, traffic measures, natural gas, propane, and land use planning.

Approximately 3000 documents were distributed through conference display and information booths.

Starting Date: April 1986 **Completion Date:** Ongoing

4.2.6/ TEAM Update and Course (33522)

Objectives
To update the Transportation Energy Analysis Manual (TEAM) where necessary. Prepare and offer a training course through the MTC/MEA traffic training programs with the course contents based on the TEAM manual.

Activities
- engage a transportation consultant to review the TEAM manual and determine if an update of the leading chapters to be used in the course are required
- develop a course curriculum and class material

Results and Achievements
After reviewing the chapters in the TEAM manual, it was concluded that very little change had taken place over the last three years to warrant the expenditures associated with the update.

After consulting with two transportation consultants and waiting for their response, it was concluded that there wasn't sufficient time to carry out this project in this fiscal year. It was decided to undertake this project in the FY 87/88.

Starting Date: September 1986 **Completion Date:** N/A

4.2.7/ Transportation Fuel Consumption in Ontario Municipalities (33524)

Objective
To calculate or, if necessary, estimate transportation energy consumption in Ontario municipalities.

Activities
- research and collect data to make necessary calculations
- literature search of appropriate equation needed for calculation

Results and Achievements
Fuel consumption figures for major municipalities across the province were developed, but these figures were found to be inaccurate due to the lack of data on fuel performance and vehicle population by municipality.

In order to achieve accurate results, there is a need to change the way vehicle population data is recorded now -- according to county boundaries -- to recording of vehicles within municipal boundaries.

Starting Date: April 1986 **Completion Date:** N/A

4.2.8/ Freeway Traffic Control Research (33528)

Objective
To review existing methods and develop new opportunities to forewarn freeway drivers of slowdown ahead.

Activities
- collection of data on freeway traffic control systems
- preparation of newsletter article
- production of booklet highlighting findings

Results and Achievements
Due to lack of staff resources, this project was not undertaken.

Starting Date: N/A **Completion Date:** N/A

4.2.9/ Transportation Energy in Official Plans (33530)

Objective
To review existing literature, and develop informational material and strategies in order for municipalities to incorporate and maintain energy based goals in official plans, particularly those relating to land development control and density.

Activities
- examination of various existing transportation energy policies
- development of ways to enforce and protect these policies
- preparation of a document giving information on energy policies, their protection and enforcement

Results and Achievements
Due to a shortage of staff resources, this project was not undertaken.

Starting Date: N/A **Completion Date:** N/A

4.3/ Share-A-Ride Overview

The basic objective of Share-A-Ride has been to increase vehicle occupancy of commuter trips through the establishment of carpool and vanpool activities in order to make better use of the existing road network and to save energy.

For 10 years Share-A-Ride has marketed and developed ridesharing concepts. During 1986/87, Share-A-Ride's activities were on a reactive basis. No promotional activities were undertaken.

The scope of activities included: distributing information on employer programs, owner-operated vanpools and carpool parking lots, provision of rideshare matching services, modifications to the rideshare matching software package and participation in various studies and projects.

Monitoring of specific activities showed that over the year, the number of employer-sponsored vanpools remained unchanged and the number of owner-operated vanpools continued to grow, but at a slower pace than in the past. The use of carpool parking lots increased by 14.3%.

Results with regards to the establishment of municipally based area wide ridesharing have been disappointing. Areas of concern are funding participation, long-term funding commitment and local transit issues.

Major achievements of Share-A-Ride include completion of Rideshare Matching System's (SARRMS) documentation, modifications and promotional material. Energy savings of 15.4 million litres of gasoline annually were achieved from initiated activities, and 8100 vehicles were removed from roadways during the peak hours.

4.4/ Project Reports

4.4.1/ Marketing Ridesharing (33500)

Project Objectives
To support employers and individuals in establishing carpool and vanpool programs, and to increase average vehicle occupancy.

To disseminate information about ridesharing throughout the province.

Activities

- distribute information on employer-based carpool and vanpool programs and on owner-operated vanpools
- maintain ridesharing matching services at selected government locations
- monitor carpool parking lots and supply the public with information about the lots
- prepare SARRMS for distribution
- participate in studies and committees
- continue with geo-coding rural communities
- update and print publications
- prepare a report on Share-A-Ride program activities from 1977 to 1987

Results and Achievements

Employer Based Ridesharing

Assistance was given to six employers who received detailed implementation material and three employers who received implementation assistance.

Computerized rideshare matching assistance was provided, utilizing SARRMS, to three government locations. One employer operated SARRMS on site.

Direct savings calculated were 0.1 million litres of gasoline annually and the removal of 100 vehicles from the roadway.

The number of employer-sponsored vanpools remained unchanged at approximately 150.

Direct savings calculated were 2.0 million litres of gasoline annually and the removal of 1000 vehicles from the roadway.

Owner-Operated Vanpools

The implementation handbook for owner operators was updated and reprinted. Information packages were sent to 45 individuals. Many callers were directed to known vanpool operators to find a ride.

There has been a steady increase in the number of owner-operated vanpools. It is estimated that there are 850 privately operated vanpools in Ontario.

Direct savings calculated were 8.5 million litres of gasoline annually and the removal of 5400 vehicles from the roadway.

Carpool Parking Lots

An inventory of the 44 official carpool parking lots was updated and distributed. Monitoring of the 2795 spaces in these lots indicated an overall occupancy rate of 58%.

Direct savings calculated were 4.6 million litres of gasoline annually and the removal of 1600 vehicles from the roadway.

Share-A-Ride Rideshare Matching System (SARRMS)

Minor enhancements to the system make it capable of operating on most IBM compatibles with an internal hard disk. An operator's manual and a SARRMS overview were updated and printed. The system has been distributed to five agencies.

Participation in Studies and Organizations

Share-A-Ride participated on several studies and committees. They included: The Canadian Ridesharing Federation, Commercial Vehicle Operator Registration (MTC), Transportation for the Disabled (MTC), Third Party Vanpool Study (MTC), and Assessment of Ridesharing Agencies (Transport Canada).

Publications

A draft report dealing with the Share-A-Ride Program (1977-87) was written.

Postal Code Conversions

Approximately 700 rural communities were geo-coded.

5/ GOVERNMENT PROGRAMS

5.1/ Overview

During FY 1986/87 Government Programs were directed toward two main areas: increasing the use of alternative fuels in government fleets and improving the energy efficiency of government fleet operations.

In the alternative fuels area, the program of converting government vehicles to operate on natural gas and gasoline (dual fuel) resulted in the conversion of 24 additional vehicles and an upgrading of the first government natural gas fuelling facility installed at the MTC Downsview yard last year.

Energy efficiency improvements were pursued through the government Fleetsave program. However, this program was deferred pending the establishment, at the direction of Management Board, of the Ontario Government Fleet Administration Office (FAO). This office was established and staffed and the areas of responsibility of the FAO and TEMP were defined. For the remainder of the FY, activities were limited to introducing Fleet Management Systems into ministries and holding meetings with the Fleetsave co-ordinators to encourage conservation practices in support of the FAO target of reducing fleet operation costs by 5% during the 87/88 fiscal year.

5.2/ Project Reports

5.2.1/ Fleetsave Monitoring (33705)

Project Objective
To increase and measure the efficiency in Government Fleet Operations.

The original objective of this project was modified as a result of the establishment of the Ontario Government Fleet Administration Office (FAO) by Management Board.

Activities
- monitoring of government fleet performance through regular visits, interviews and questionnaires
- production of a yearly performance report

Results and Achievements
The annual fleet energy and cost reporting function originally proposed under this project was reassigned to the FAO. This project was limited to holding discussions with the fleetsave co-ordinators for the purpose

of promoting energy conservation through the adoption of good fleet management practices and policies. As a result of meetings with the co-ordinators, five ministries have agreed to introduce records and fleet management within their ministries, and all ministries are aware of the need to improve fleet management practices in the interest of reducing energy, cutting costs and improving safety of operation.

Starting Date: April 1986 **Completion Date:** March 1987

5.2.2/ Computerized Fleets Records Management Demonstration (33706)

Project Objective
To demonstrate the efficiency and energy savings that may be obtained by the use of computerized fleet management methods.

Activities
- seminars to familiarize government fleet managers with the Municipal Fleet Management Information System (MFMIS) developed by TEMP for municipalities
- meetings with ministries to demonstrate the operation and use of MFMIS
- installation of MFMIS into ministries

Results and Achievements
A seminar was held for 35 government fleet managers to familiarize them with the MFMIS, and individual meetings were held with most ministries to give a demonstration of the MFMIS. Sets of Informex and Xenix software packages were purchased and given to the ministries wishing to install MFMIS.

Six ministries are currently installing the MFMIS, and four ministries are evaluating the program with the intent of installing it.

Starting Date: July 1985 **Completion Date:** March 1987

5.2.3/ Contingency Planning (33707)

Objective
To have an operational plan for each ministry which will minimize the impact of a petroleum shortage on the province.

Activities
- provision of guidance and assistance to ministries developing transportation energy contingency plans
- meetings with ministries to review progress of plan

Results and Achievements
This program was being wound down during this fiscal year and the contingency planning unit at the Ministry of Energy (MENY) was dismantled at the end of the fiscal year.

Activities during the year were limited to holding discussions with the federal government to clarify federal/provincial roles. A draft plan was produced by MENY and TEMP. Reviews and comments were made on the draft plan.

Starting Date: April 1984 **Completion Date:** March 1987

5.2.4/ Government Fleetsave Project Co-ordinator (33708)

Objective
To improve the efficiency in the operation of government vehicles.

Activities
- investigate and pursue various options to improve fleet management efficiency
- co-ordinate instruction to drivers and mechanics on methods of improving efficiency

Results and Achievements
This project was amalgamated with Project #33705, Fleetsave Monitoring.

Starting Date: N/A **Completion Date:** N/A

5.2.5/ Government Fuel Efficiency Seminar (33709)

Objective
To increase the efficiency of government fleets.

Activities
- conducting seminars on fuel conservation practices for government fleet administrators, mechanics and drivers

Results and Achievements
This project was deferred to the next fiscal year.

Starting Date: N/A **Completion Date:** N/A

5.2.6/ Conversion of Government Vehicles to NGV (33806)

Objective
To convert about 45 vehicles to operate on NGV and train government drivers, mechanics and fleet managers in the proper operation and servicing of these vehicles.

Activities
- conversion of government vehicles to NGV
- maintenance of the NGV fuel systems on these vehicles
- maintenance of the District 6 NGV compressor
- training government mechanics as gas mechanics
- providing information seminars for drivers

Results and Achievements
Twenty-four vehicles were converted.

Repairs were made to four vehicles having problems directly related to operation on NGV.

The storage cascade on the District 6 compressor was enlarged to accommodate the expanding District 6 flat.

Modifications were made to the compressor electronics to be compatible with the District's Computrol Card Lock System.

Information seminars were provided to all new NGV vehicle drivers.

Training of mechanics was not done since no courses were held by the community colleges.

Starting Date: April 1986 **Completion Date:** March 1987

6/ ATF MARKETING

6.1/ Overview

With the propane industry increasingly able to operate without major government marketing assistance, the ATF marketing subprogram was able to concentrate its effort in support of the rapidly expanding natural gas transportation fuel industry. Support to this industry was provided by participation in trade-shows and the provision of technical and promotional booklets. Market support to the propane industry was still maintained through the provision of similar technical and promotional booklets.

Information on all alterative transportation fuels was provided through the distribution of eight informational booklets and eight pamphlets that were updated and reprinted during the past fiscal year.

6.2/ Project Reports

6.2.1/ ATF Seminar (33807)

Project Objectives
To sponsor an alternative fuels seminar to promote the use of ATFs in fleets.

Activities
- development of seminar contents
- advertising of seminar
- conduction of seminar in co-operation with the ATF industries

Results and Achievements
This project was deferred until the next fiscal year.

Starting Date: N/A **Completion Date:** N/A

6.2.2/ Reprints of ATF Publications (33808)

Project Objectives
To maintain a supply of up-to-date ATF publications for distribution to interested persons to promote the knowledge and use of alternative fuels.

Activities
- regular reviews of all printed ATF material to determine whether all information is still accurate and up-to-date

- making necessary revisions to content before reprinting any of the ATF material
- reprinting of ATF booklets and pamphlets

Results and Achievements
Both the "Switching to Natural Gas" and "Switching to Propane" booklets and pamphlets were revised and reprinted.

All booklets and pamphlets in the general ATF series were reprinted.

A total of 16 000 booklets and 25 000 pamphlets were reprinted.

TEMP has an adequate stock of most ATF publications that are technically correct. These publications are seen by the industry as being the best, unbiased and most accurate publications on ATFs.

Starting Date: April 1986 **Completion Date:** March 1987

6.2.3/ ATF Information Service (33809)

Project Objectives
To respond to public inquiries concerning alternative fuels in an effective and knowledgeable manner, and to distribute ATF informational material.

Activities
- providing information on ATFs in response to inquiries from the public
- distribution of ATF informational material at trade shows, seminars, and as requested

Results and Achievements
Over 300 telephone inquiries regarding ATFs, mainly propane and NGV, were dealt with.

ATF materials were distributed at the Canadian National Exhibition (CNE) DriveSave booth, the Toronto Auto Show, and the ATF Conference at EXPO '86 in Vancouver.

Presentations highlighting MTC's experiences with ATFs were made at five seminars.

Two articles on ATFs were written for the FuelSaver Newsletter.

Starting Date: April 1986 **Completion Date:** Ongoing

7/ TEMP ALLOCATIONS AND EXPENDITURES -- Fiscal Year 1986/87

7.1/ Introduction

The following pages summarize the funding allocations and expenditures for the Transportation Energy Management Program for FY 1986/87. The majority of the funding is that portion allocated by the Ministry of Energy (MENY) for direct operating expenditures, including consultant services, purchase of goods and equipment, and the direction of seminars. The tables on the following pages show the initial and final MENY allocation, adjusted by the program requirements throughout the fiscal year.

MTC's expenditure includes staff resources, data processing, travel, and administrative costs. The tables do not include MTC expenditures by offices other than the Transportation Energy Office, even in cases where these offices incurred costs working on, or in support of, TEMP projects.

Tables 1 and 2 provide a general overview, and Tables 3 to 9 detail allocations and expenditures by project. The data presented in these tables have not been audited, but are considered to be accurate.

7.2/ Financial Summaries

Table 1/ TEMP Budget, FY 1986/87

	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
Conservation	793.3	854.3	660.6	323.3
Trans. Tech.	649.1	649.1	503.8	101.8
Research & Devel.	260.0	260.0	148.1	56.8
Overheads	0.0	0.0	0.0	333.1
TOTAL	1702.4	1763.4	1312.5	814.2

Table 2/ Conservation

Program	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
Trucksave	239.5	240.5	231.4	72.9
DriveSave	135.5	195.5	160.5	73.6
Municipal	134.8	134.8	99.7	36.7
Ridesharing	0.0	0.0	0.0	39.8
Gov't Programs	265.0	265.0	137.7	81.4
ATF Marketing	18.5	18.5	31.3	18.0
TOTAL	793.3	854.3	660.6	322.4

Table 3/ TRUCKSAVE

Project Number	Project Name	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
33100	Fleet Advisory Committee	28.5	28.5	32.0	13.0
33115	Revision and Reprints of Current Publications	25.0	25.0	41.5	4.0
33116	Marketing Trucksave	50.0	90.0	26.5	4.3
33117	Film for Straight Trucks	55.0	10.0	19.3	5.2
33118	Tires, Wheels and Braking	25.0	6.0	0.0	1.4
33299	Fuel Economy Challenge	56.0	56.0	90.2	43.8
33119	Trucksave Display	0.0	25.0	21.8	1.2
TOTAL		239.5	240.5	231.3	72.9

Table 4/ DRIVESAVE

Project Number	Project Name	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
33301	DriveSave Display	0.0	0.0	33.7	16.5
33349	General Driver Mark. Study	15.5	15.5	15.2	8.5
33395	Driver Education	52.0	52.0	37.7	19.0
33400	Fleet Industry Program	10.0	10.0	1.4	11.1
33406	Fuelsaver Newsletter	17.0	17.0	9.0	2.3
33441	Fleet Management Seminars	6.0	6.0	5.1	15.3
33499	Fleet Program Market Assessment	35.0	35.0	0.0	1.1
33320	General Licence Driver Program	0.0	60.0	58.4	0.0
TOTAL		135.5	195.5	160.5	73.6

Table 5/ MUNICIPAL

Project Number	Project Name	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
33500	MTEAC Comm.	61.3	61.3	61.3	14.4
33501	MTEAC Newsletter	15.0	15.0	10.4	5.8
33504	Municipal Fleet Management Information System	20.0	20.0	19.3	10.1
33522	T.E.A.M. Update and Course	30.0	30.0	0.1	0.0
33507	Municipal Program Evaluation	1.0	1.0	0.2	5.8
33520	Municipal Outreach	7.5	7.5	8.4	1.5
33524	Transp. Fuel Consumption in Ontario Municipalities	0.0	0.0	0.0	0.0
33528	Freeway Traffic Control Research	0.0	0.0	0.0	0.0
33530	Transportation Energy in Official Plans	0.0	0.0	0.0	0.0
TOTAL		134.8	134.8	99.7	37.6
33600	Marketing Ridesharing	0.0	0.0	0.0	39.8
TOTAL		0.0	0.0	0.0	39.8

Table 6/ GOVERNMENT PROGRAMS

Project Number	Project Name	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
33705	Fleetsave Monitoring	32.0	21.0	25.4	15.0
33708	Project Co-ordination				
33706	Computerized Fleet Record Management	25.0	25.0	22.6	15.4
33709	Government Fleet Eff. Seminar	8.0	0.0	0.0	3.4
33806	Conversion of Government Vehicles	200.0	219.0	89.7	44.0
33707	Contingency Planning	0.0	0.0	0.0	3.6
TOTAL		265.0	265.0	137.7	81.4

Table 7/ ATF Marketing

Project Number	Project Name	MENY Init. Alloc.	MENY Final Alloc.	MENY Final Expend.	MTC Final Expend.
33807	ATF Seminar	0.0	0.0	0.0	0.0
33808	Reprints ATF Publications	18.5	18.5	31.4	0.0
33809	ATF Information Services	0.0	0.0	0.0	18.0
TOTAL		18.5	18.5	31.4	18.0

APPENDIX/ADVISORY COMMITTEES

A.1/ TruckSave Advisory Committee

Name	Title	Affiliation
D.E. Ker (Chairman)	Trucksave Manager	Trucksave, MTC
A. Anderson	President	Anderson Haulage
D.H. Andrew	Vice-Pres., Maintenance	Alltrans Canada
L. Alter	Staff	Ontario Trucking Association
G.G. Carr	Retired	Tippet-Richardson
R. Covello	Head, New Equipment	MTC
D. Flanigan	Sales Manager	Esso Petroleum
W.H. Gough	Vice-Pres., Maintenance and Purchasing	Kingsway Transport Ltd.
B. Hardie	Executive Director	Private Motor Truck Council
T. Jasper	Fleet Manager	Consumers Distributing Ltd.
R. McKillop	Vice-Pres., Maintenance	Canada Cartage System Ltd.
J. Patriarche	Co-ordinator, Transportation Programs	Ministry of Energy
S. Radbone	Manager, Truck Transportation Office	MTC
H. Ruhl	President	H. Ruhl Machinery Co. Ltd.
L Sharples	Fleet Manager	S.L.H. Ltd.
P. Stafford	Fleet Specialist	Petro Canada
V.H. Wintjes	Maintenance Manager	Canadian Tire Corp. Ltd.

A.2/ TruckSave Economy Challenge Subcommittee

Name	Title	Affiliation
D.E. Ker (Chairman)	Trucksave Manager	Trucksave, MTC
R. Barker	Fleet Manager	Liquid Air
S. Bigus	Transport Superintendant	Labatt's Breweries
C. Brown	Safety and Training Supervisor	Eastern Rentals
D. Doren	Safety Supervisor	Imperial Oil
W.H. Capes	Equipment Research	International Carriers Ltd. (ICL)
R. Dunbrooke	Safety Supervisor	Carling O'Keefe
R.J. Haystead	Safety Supervisor	Kingsway Transport
C. Hoonaard	Safety Supervisor	Glengarry Transport
T.R. Speed	Engineering Manager	Coca-Cola
H.J. Weishar	Fleet Manager	Molson's Brewery

A.3/ DriveSave Fleet Advisory Committee

Name	Title	Affiliation
D. Beange (Chairman)	DriveSave Manager	MTC
C. Wiese (Exec. Sec.)	DriveSave Program Officer	MTC
F. Attard	Fleet Administrator	Xerox Canada
K. Austin	Manager, Administrative Services	G.D. Searle
H. Ferguson	Fleet Manager	Canada Packers
C. Hill	Manager, Corporate Fleet	Honeywell
D. Ker	Manager, Trucksave	MTC
M. Nantias	Manager, Committees	Motor Vehicle Manufacturers' Association
J. Patriarche	Co-ordinator, Transportation Programs	Ministry of Energy
D. Ryrie	Assistant Director, Adminstration and Methods	Bell Canada
H. Siegel	Senior Engineer Engineering Services	Ontario Hydro
V. Soots	Manager, Transportation Energy Office	MTC
J. Svensson	President	Driving School Association of Ontario
T. Westaway	Fleet Administrator	Work Wear Corporation
J. Worsley	Fleet Manager	Nestle Ent. Ltd.

A.4/ Municipal Transportation Energy Advisory Committee

Name	Title	Affiliation
D.C. Redmond (Chairman)	City Engineer	City of Sault Ste. Marie
V. Soots (Vice-Chairman)	Manager Transportation Energy Office	MTC
F.M. Cherutti (Executive Secretary)	Head, Municipal Program, TEMP	MTC
J. Childs	Manager, Municipal Roads Office	MTC
A.R. Gordon	Director Transport Div.	Municipality of Metropolitan Toronto
M. Holenski	Environmental Services Engineer	Region Municipality of Niagara
D. Juneja	Transportation Officer, Transit Office	MTC
A.J. Lake	General Superintendant Maintenance and Service	City of London
W. Lambert	Policy Analyst	Toronto Transit Commission
J. Mansbridge	Director of Transportation Operations	City of Sudbury
J.R. McCorkell	Director Operations	Regional Municipality of Durham
D.J. McDonald	County Engineer	Stormont, Dundas and Glengarry
B. Mocsan	Project Manager, Municipal Program	MTC
J. Patriarche	Co-ordinator, Transportation Programs	Ministry of Energy
L. Shallal	Chief Systems Planning Engineer	Regional Municipality of Ottawa-Carleton
G.A. Thompson	Director of Roads and Traffic	Regional Municipality of Waterloo
D.H.C. Thwaites	Director Transportation Planning	Regional Municipality of Peel
J. Toffelmire	Director Traffic Engineering	City of Windsor